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The Sphecid Wasps of the Genus *Pemphredon* LATREILLE 1756 of „Biologiezentrum Linz" Collection in Linz, Austria (Hymenoptera, Sphecidae)

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A b s t r a c t : The Sphecid Wasps of the Genus *Pemphredon* LATREILLE 1756 (Hymenoptera, Sphecidae) of the Collection "Biologiezentrum Linz" were examined. All information on rare species and localities outside of Central Europe of common species are listed.

Introduction

Last year I was asked to determine 1791 specimens of Sphecid wasps of the genus *Pemphredon* LATREILLE. Here are the results.

Complete information including the localities and the dates of capture is listed only with rare species. With widespread and comonly found species the exact localities and dates of capture are listed only if they were found outside of Central Europe.

Material examined

Pemphredon austriaca (KOHL 1888) [9♂♂, 16♀♀]

B u l g a r i a : 1♀, Ropotamo, 20.5.1979, leg. Hoffer; 1♂, Trakia, Proslav, 30.6.1996, leg. Zaykov; 1♂, Slancev Brjag, 28.6.-14.7.1971, leg. Padr.

C r o a t i a: 1♀, Istria, Porec, 1.-3.9.1996, leg. Halada.

C z e c h i e : Bohemia: 1♂, Chlum u. Tr. nv.,5.9.1992, leg. Halada. Moravia: 1♀, Kobyli, 14.6.1970, leg. Kocourek; 1♀, Kobyli, 1976, leg. Kocourek; 1♀, Veseli, 18.8.1972, leg. Karas; 1♂, Hodonin, 6.1968, leg. Kocourek; 1♂, Straksnice, 1955, leg. Kocourek; 5♂♂, Lhota u Paöl, 1.6.1991, leg. Deneš.

M o r o c c o : 1♂, Sefrou, 8.5.1997, leg. Deneš.

S l o v a k i a : 2♀♀, Sturovo, 6.1974, leg. Kocourek; 2♀♀ Cajkov, 8.1960, leg. Kocourek; 1♂, Somotor, 6.7.1972, leg. Deneš; 1♂, Sturovo, 28.7.1972, leg. Kocourek.

S p a i n : 3♂♂, Valencia, Polopos, 5.5.1997, leg. Halada.

Pemphredon baltica MERISUO 1972

F i n l a n d : 2♀♀, Helsinki, Villinki, 21.7.1962, leg. Rania.

S l o v a k i a : 1♀, Malaky, 17.6.1980, leg. Deneš.

G r e e c e : 1♂, Epirus, Ioannina, Pindos-Geb., W Katara Pass, 39°47'N/21°13'E, 1550-1600m, 21.-22.6.1993, leg. H.&R. Rausch; 1♂, Phthiotis, Vardoussia-Geb., 4km S Daphni, 38°45'N/ 22°08'E, 1400m, 19.-20.6.1093, leg. H.&R. Rausch; This male definitely belongs to *balica*, which was proved by extra examination of genitals. The penis valves of *balitca* differ considerably from other species.

Pemphredon diervillae **IWATA 1933**

J a p a n : VIII, Mt. Koya, Coll. Kocourek.

Pemphredon flavistigma **THOMSON 1874 [2♂♂]**

C z e c h i e : Bohemia: 1♂, Budejov Trisov, 24.5.1999, leg. Halada.
R u s s i a n F e d e r a t i o n : 1♂, Ussuri Reg., Jasnoe-mount. Oblatchnaja, 400-800m, 12.-16.7.1989, leg. Becvar.

Pemphredon fuscipennis **CAMERON 1897 [1♀]**

I n d i a b o r .: 1♀, Uttar Prades bor. between Badar Inath and Govind Ghat, 2800m, 9.-11.7.1994, leg. Sp.

Pemphredon inornata **SAY 1824 [96♀♀, 90♂♂]**

C h i n a : 1♀, Yunnan, Ninglang env., 27.19N/100.55E, 6.-10. 7.1992, leg. Becvar; 1♀, Tian Shan Orunqi 70km Heuxia, 2000-3000m, 16.-21.7.1991, leg. Snizek.
K a z a k h s t a n : 1♀, Alma Ata, Medeo, 13.7.1981, leg. Kocourek.
K i r g i z i y a : 1♂, Issyk-Kulskaya, Obl. Kungey-Alatau, Tal d. Tyup, 42°44'N/78°55'E, 1950m, 21.6.1995, leg. H. & R. Rausch, P. Ressl.
G r e e c e : 1♂, Preveza env., 25.6.1997, leg. Deneš.
The remaining specimens come from Bulgaria, Czechia, Hungary, Romania und Slovakia.

Pemphredon lethifer **(SHUCKARD 1837) [595♀♀, 462♂♂]**

A l g e r i a : 1♂, Biskra, 7.6.1970, leg. Hoffer; 1♀, Aures, Ain Zaatout, 1.-4-6-1971, leg. Hoffer et Horak; 4♂♂, Gr. Kabylia, Ait Hassem, 16. u. 18.6.1971, leg. Hoffer et Horak; 2♂♂, Gr. Kabylia, Tiziouzou, 15.6.1971, leg. Hoffer et Horak; 1♂, Yacouren (Park national), 21.-23.6.1971, leg. Hoffer et Horak; 1♂, Bojira, 12.-14.6.1971, leg. Hoffer et Horak.
C h i n a : 2♂♂, 1♀, Ganguyi, 35 km NE of Yanan, 110° 3'E, 36°8'N, 17.-18.5.1996, leg. Halada; 2♀♀, Zhongtiao Shan mt. c. 45 km W Sanmenxia, 25.5.1996, leg. Halada.
G r e e c e : 3♂♂, 3♀♀, Epeiros, 20 km N Preveca, 29.8.1997, leg. Halada; 2♀♀, Pelopones, 20 km N Pilos, Marathopoli, 8.7.1996, leg. Halada; 1♀, Pelopones, 20 km E Sparta, Ag. Anagiri, 5.7.1996, leg. Halada; 1♂, 1♀, Chalkidike, Kasandra env., 5.-9.9.1997, leg. Halada; 1♂, 3♀♀, Preveza env., 25.6.1997, leg. Deneš; 1♀ Sithonia, Sikia, 30.8.1978, leg. Warnke; 1♀ Kreta, Amoudara, St. Marina, 5.-12.6.1993, leg. Tiefenthaler; 1♀, MGr. Phthiotis NE Dilofo, SW Agios Sostis, 38°52' N/22°07' E, 500m, 18.6.1993, leg. H. & R. Rausch; 1♂, 10 km W Ioannina, 1.7.1996, leg. Halada; 1♂, Pelopones, Arkadien S Paparis, 18.5.1992, 37°22'N/22°14'E, 800m, leg. Rausch; 1♂, Epeiros, 40 km E Ioannina, leg. Halada.
I t a l i a : 1♀, Molise 10 km S Termoli, 24.8.1997, leg. Halada.
I r a q : 1♀, Baghdad, 1.5.1988, leg. Peinicek; 5♂♂, Baghdad Sci. Res. centr., 11.4.1988, leg. Olejnicek.
J a p a n : 1♀, 8.1956, Minoo.
J o r d a n : 1♂, 30 km N Tafila, 2.5.1996, leg. Halada.

K a z a k h s t a n : 2♀♀, 10 km E Djambul, 31.5.1994, leg. Halada; 1♀, Vanovka 80 km E Djambul, 30.6.1992, leg. Jirosek; 1♀, Fabritchny 40 km E Alma Ata, 23.6.1992, leg. Halada; 3♀♀, 20 km SE Aksay env., 16.-19.6.1992, leg. Halada;1 ♂, Alma Ata, 30 km. zap Aksay, 16.7.1981, leg. Kocourek; 4♂♂, 2♀♀, River Ili, Aidarli, 14.6.1992, leg. Deneš; 1♀, Koktal garden, 15.6.1992, leg. Deneš; 2♂♂, Kaptzagai 100 km. N Alma Ata, 18.6.1995, leg. Halada; 1♂, Novovaskresonovka 40 km E Merke, 4.5.1994, leg. Halada; 1♂ Lugovoe 150 km W Djambul, 7.7.1992, leg. Halada.

K i r g i z i y a : 3♀♀, Oshaskaya Obl Distr. Alajsky S des Ortes Kok-Suu, Bachtal, 39°40'28"N/73°45'57"E GPS, 3000m, 24.-25.7.1988, leg. H. & R. Rausch; 1♀, Talasskaya Oblast., Talass-Gebirge, am Fluss Ara-Byik, 42°23'28"N/70°58'34"E/GPS, 2050-2150m, 3.7.1998, leg. H.&R. Rausch; 1♀, Oshaskaya Obl. Distr. Dchon-Alajsky, Alai Gebirge, Tal d. Kok-Suu, 39°37'34"N/71°58'36"E/GPS, 2700-2800m, 20.-21.7.1998, leg. H. & R. Rausch; 1♀, Dzhalal-Abadskaya Obl., Sandalasch Gebirge über Kuru-Tegerek, 42°02'15"N/71°24'14"E GPS, 2600-2750m, 9.-10.7.1998, leg. H. & R. Rausch; 1♀, Oshaskaya, Distrikt Uzgen, Seren Berge, Tchanget-Pass, zw. Tchanget u. Irisu, ca.20-25km N Uzgen, 40°58'N/73°20'E, 1550m, 19.6.1996, leg. H. Rausch; 6♂♂, 2♀♀, Kizil-Kiya, 40,2N/72,1E, 15.5.1994, leg. Halada; 1♀, Terek-Sai, 41,5°N/71,1°E, 7.6.1995, leg. Halada; 2♀♀, Burgandi, 60km W Jalabad, 14.6.1995, leg. Mucka; 2♂♂, 10km S Sari-Tzelek 42°N/72°E, 5.6.1995, leg. Halada; 1♂, 20km N Aravan, 40,3°N/72,5°E, 17.5.1994, leg. Halada.

M o r o c c o : 1♂, Amouguer, 50km W Rich, 23.5.1995, leg. Halada; 1♀, Ifrane 12km, 9.-10.5.1997, leg. Halada; 1♂, 1♀, 10km S Rich, 22.5.1995, leg. Halada; 4♂♂, Marrakech, 15.4.1990, leg. Halada; 1♂, 30 km of Fes, Lot-Jomu, 8.5.1997, leg. Halada;1 ♂, 5 km N Agadir, 18.5.1997, leg. Halada.

S y r i a : 1♀, Ras al Basit, 19.5.1995, leg. Deneš; 1♀, 50 km W Homs, 12.5.1996, leg. Marek Halada; 1♂, 30 km NW Dara, 32°47'N/35°58'E, 30.3.1994, leg. Becvar.

T a d z h i k i s t a n : 1♀,Taskent, 40 km E Cirik, 4.7.1981, leg. Kocourek; 4♂♂, 4♀♀, Pendzikend, 20 km v. Resen Pojom, 26.6.1981, leg. Kocourek; 6♀♀, Taskant, 40 km E Circik, 4.7.1981, leg. Kocourek; 1♂, Darvazskaij chrebet, Tavildara,1800-2800m, 13.6.1990, leg. Halada; 1♀, Dusambe, 25.6.1981, leg. Kocourek; 1♂, Vacha, 4.6.1990, leg. Halada.

T u n i s i a : 1♀, M'saken, 20.4.-21.4.1998, leg. Deneš.

T u r k e y : 2♀♀, 50 km S Kars Pasli, 1.7.1997, leg. Halada; 1♂, 4♀♀, Konya, 30 km S Aksehir, 24.6.1998, leg. Halada; 4♀♀, 20 km E Gurun, Mezikiran Gecidi, 10.7.1997, leg. Halada; 1♂, 4♀♀, Seydisehir Konyn, 4.8.1991, 1800m, 4.8.1991, leg. Halada; 2♂♂, 2♀♀, 20 km Van, 5.7.1997, leg. Halada; 2♀♀, Refahiye/Erzincan, 2200m 23.8.1991, leg. Halada; 2♀♀, 20 km NW Igdir, 26.6.1997, leg. Halada; 1♀, 20 km W Agri, 4.7.1997, leg. Halada; 3♀♀, Bitlin, Nemrut-Dag, 2000m, 16.8.1991, leg. Halada; 1♀, 10 km N Muradya, 27.6.1997, leg. Halada; 3♂♂, 3♀♀, Gevas/Van Gölü, 29.6.1993, leg. Deneš; 1♀, 10 km N Bayburt Gümüghine, 1600m, 22.8.1991, leg. Halada; 1♀, Capadocia, Urgup, 13.6.1998, leg. Halada; 1♂♂, 10 km N Akseki Pass, 24.5.1998, leg. Halada; 1♂, Zelve (Nevsehir), 12.7.1992, leg. Halada; 1♂, Sbeitla, 12.4.1998, leg. Deneš; 3♂♂, Horasan, 18 km E Delibaba, leg. Jirosek; 1♂, Göreme, 23.6.1993, leg. Halada; 1♂, Agri env., 27.6.1993, leg. Deneš.

T u r k m e n y a : 1♀, Sandkratzi env., 3.-13.5.1993, leg. Deneš; 1♂, 1♂, Aschabad env., 26.4.1993, leg. Halada; 1♀, Firjuza-Vanovski, 23.-26-4-1989, leg. Becvar; 5♂♂, Sandykathy, 28.3.-4.4.1992, leg. Halada; 5♂♂, Nebit-Dag 25 km NW Jebel, 28.4.1993, leg. Halada; 1♂, Cardzou Sajat, 18.4.1993, leg. Snizek.

U z b e k s k a y a : 1♂, 5♀♀, Papngan, 20 km NW Kokand,41,2°N/70,6°E, leg, Halada;1 ♂, 2♀♀, Samarkand env. 19.-21.5.1994, leg. Halada; 1♂, 1♀, Vit. Taschkent, 12 km ESE Gazalkent, 41°31'46" N/69°54'19" E /GPS, 1200m, 18.5.1997, H. & R. Rausch; 2♂♂, 1♀, Taschkent, Tschatkal. Gebirge am Berg Surenata, 41°24'08"N/69°51'05"E/GPS, 1550-1700m, 15.-17.6.1997, leg. H. & R. Rausch; 2♂♂, 2♀♀, Akcza, SW Angren, 41,1°N/70,0°E, 7.5.1994, leg. Halada; 1♂, Surchan Darja, Kughitangtan, Shalkan-Tal, 37°50'51"N/66°38'36"E, 1450-1600m, 28.-30.5.1997, leg. H. & R. Rausch; 1♀, Aktas, Taschkent env., 1100-1500m, 24.5.1974, leg. Deneš.

The remaining specimens come from Bulgaria, Croatia, Czechie, France, Romania und Slovakia.

Pemphredon lugens **DAHLBOM 1843 [45 ♂♂, 86 ♀♀]**

G r e e c e : 1♂, Arakhova, 6.1989, leg. Kudrna;
G e o r g i a : 1♂, Caucasus centr., Svanetia, Mestia, 1600-2000m, 17.-30.6.1998, leg. Deneš.
The remaining specimens come from Austria, Czechia, Finland, Slovakia,und Slovenia.

Pemphredon lugubris **(FABRICIUS 1793) [44 ♂♂, 146 ♀♀]**

C h i n a : 1♀, Yunnan, de Quen, 20.-24.6.1995, leg. Kucera.
I t a l i a : 1♀, Torre Pellice, 20.6.1972, Coll. Parré.
R o m a n i a : 1♀, Brasov, Sacele 650m, 30.8.1994, leg. Szexely.
U k r a i n a : 1♂, Poltava, 13.7.1965, leg. Halada.
The remaining specimens come from Bulgaria, Czechie, Estland and Slovakia.

Pemphredon maurusia **VALKEILA 1972**

M o r o c c o : 1♀, Village Pilote env., N Khemisset, 19.5.1997, leg. Prudek.
T u n i s i a : 1♂, Zaghouan Mts., 1.-2.6.1993, leg. Batelka.

Pemphredon montana **DAHLBOM 1845 [1♂, 31♀♀]**

B u l g a r i a : 1♀, Popina Luka, 1800m, 14.7.1966, leg. Kocourek.
The remaining specimens come from Austria, Czechie, Slovakia und Slovenia.

Pemphredon morio **Vander Linden, 1829 [7♂♂, 18 ♀♀]**

A u s t r i a : 1♀, OO. Linz Umg. Hasenberg bei Steyeregg, 10.8.1996, leg. Tiefenthaler.
B u l g a r i a : 1♀, Slncev Brjag, 21.7.1968, leg. Kocourek.
C z e c h i e : 1♀, Vyskov, 5.8.1965, leg. Kocourek; 1♀, Vyskov, 27.8.1978; 3♀♀, Bohemia mer. Chlum u Treb. 13.6.1993, leg. Halada; 1♀, Bohemia mer. Chlum u Treb.,11.7.1988, leg. Niedl; 1♂, Bohemia mer. Chlum u Treb., 9.1994, leg. Niedl; 2♀♀, Bohemia, Majdalena, 23.7.1989, leg. Deneš; 2♀♀, Bohemia, N Hrady, 25.7.1992; 1♀, Bohemia or. Vysoke Myto, 27.8.1967, leg. Polacek; 1♀, Bohemia Zöfin, 15.7.1964, leg. Deneš; 1♀, Arnostov N. c. Budejovice, 7.7.1994, leg. Malada; 1♀, N Ves, B. Or., 6.6.1971, leg. Polacek; 1♂, Moravia Kobyli, 1964, leg. Kocourek; 1♂, Klanovice, 4.6.1975, leg. Padr; 2♂♂, Bohemia Kameuny Ujezd, 1988, leg. Halada; 1♂, Moravia Olomouc, 1930, leg. Hoffer.
S l o v a k i a : 1♀, Matliare, 5.7.1952, leg. Palasek; 1♂, Sturovo, 6.1965, leg. Kocourek.

Pemphredon podagrica **CHEVRIER 1870**

B u l g a r i a : 1♂, Slncev Brjag, 6.1972, leg. Kocourek.
C z e c h i e : 1♀, Bohemia m. Husinek, 5.1989, leg. Simandl; 1♀, Bohemia Sobotka, 2.7.1972, leg. Samsinak.

Pemphredon rugifer **(DAHLBOM 1844) [8♂♂, 69 ♀♀]**

F i n l a n d : 1♀, Hirvensalni, 7.1968, leg. Ranin; 1♀, Helsinki, 25.6.1967, leg. Ranin.
G r e e c e : 1♀, W Preveza env., 25.6.1997, leg. Deneš.
K a z a k h s t a n : 1♂, Lake Alakol Kotuna, 22.6.1995, leg. Mucha.
R o m a n i a m e r .: 1♀, 20km N Orosea, 12.9.1997, leg. Halada.
R u s s i a n F e d e r a t i o n : 1♀, Krya Jalta, 6.-10.7.1985, leg. Deneš.
S y r i a m e r ./o c c .: 1♀, Maalula, 17.5.1995, leg. Deneš.
T u r k e y : 1♀, 80 km SW Malatya Erenek, 9.7.1997, leg. Halada; 1♀, 20 km NW Igdir, 29.6.1997, leg. Halada; 1♀, Camardi (Nigde), 13.7.1997, leg. Halada.

Remaining specimens come from: Austria 1♀, Bulgaria 24♀♀, Czecie 25 ♀♀, Croatia 3♀♀, Slovacia 7♀♀.
29♂♂ fromTurkey, Greece and Morocco could not be identified (similar to *P. lethifer* and *austriaca*).

Pemphredon tridentata GUSSAKOVSKIJ 1952

K i r g i z i y a : 1♀, Narynskaya Obl., Tersk-Alatau, Bokonbayevskoye, 42°05'N/77°05'E, 2100m, 18.6.1995, leg. H. & R. Rausch, P. Ressl; 1♂, Dzhalal-Abadskaya, Distr. Chatkal, ESE Pass Chap-Chyma Chatkal'sky Khrebet, 41°30'N/70°53'30"E, 2150-2300m, 3.6.-3.7.1996, leg. H. Rausch.

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Zusammenfassung

Die Grabwespen der Gattung *Pemphredon* LATREILLE 1756 (Hymenoptera, Sphecidae) der Sammlung des Biologiezentrums Linz wurden untersucht. Von selten gefundenen Arten sind alle Funddaten dargestellt, von häufigen Arten nur die außerhalb von Zentraleuropa liegenden und bemerkenswerte Funde.

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